

HANFORD SITE

Environmental Restoration Contract

Monthly Performance Report

July 2004

Accelerating Cleanup ...



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor



CH2MHILL Hanford Inc.



**EBERLINE
SERVICES**
HANFORD, INC.

ENVIRONMENTAL RESTORATION EXECUTIVE SUMMARY

July 2004 Monthly Report

SAFETY:

As of July 31, the ERC worked approximately 714,500 hours since the last lost workday incident, which occurred on October 28, 2003. The ERC has experienced 89% injury free workdays during FY04. No significant issues or findings were identified with regard to the 12 applicable CPOF criteria during the July reporting period. Current calendar month: 5 first aids

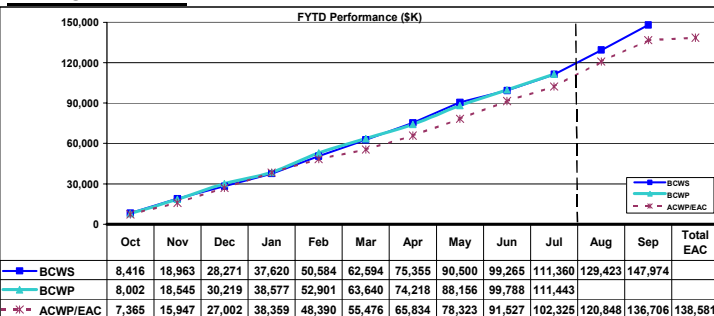
HIGHLIGHTS:

- Completed demolition of H Reactor gas wing east wall, roof of outer rod room, and Area 4.
- Completed 190-DR asbestos/biological hazard removal project.
- Initiated 1802-N steam piping asbestos removal activities.
- Submitted Draft A EE/CAs for 300 Area and N and B Reactors to RL for review.
- Began equipment mobilization for clean overburden removal at 118-K-1 Burial Ground.
- Re-initiated excavation/stockpiling/sorting activities at 118-B-1 under high radiation area protocol.
- Received 4 bids for 100-B/C Remaining Pipelines and Sewers (RPAS) project.
- Disposed of 3 shipments of treated uranium chips-in-oil waste that was returned from Tennessee.
- Completed primary geomembrane and geotextile material placement for ERDF Cell 6 expansion.
- Supported transition of HGP sites from RL to BHI, resolving issues with differences in WIDS and Energy Northwest CVPs.

UPCOMING KEY ACTIVITIES:

- Complete D Reactor SSE and S&M Plan - September.
- Award 100-B/C RPAS subcontract.
- Perform haul road construction and overburden removal at 118-K-1.
- Complete design/procurement for receiving low-level fraction of waste from FH's TRU Retrieval Project.
- Receive final shipment of treated uranium chips-in-oil waste for disposal in ERDF (M-16-03I).
- Conduct 100/300 Area River Corridor Baseline Risk Assessment issues interviews with HAB, remaining Trustees and Tribes in August.

PERFORMANCE:



- SV:** \$83K; 0.1%. On schedule.
- CV:** \$9,118K; 8.2%. 300 Area backfill/regrade subcontract award less than plan; favorable settlement for previous site subcontract litigation; fewer resources required for 100 Area S&M; prior-year rebill accounting adjustments.

EAC TRENDS:

Current Month: (\$108K)
FYTD: (\$9,394K)

- Labor reductions at N Area, 300 Area, Group 4; 300 Area backfill/ regrade efficiencies; favorable settlement for previous site subcontract litigation; prior-year rebill accounting adjustments.

TPA MILESTONES:

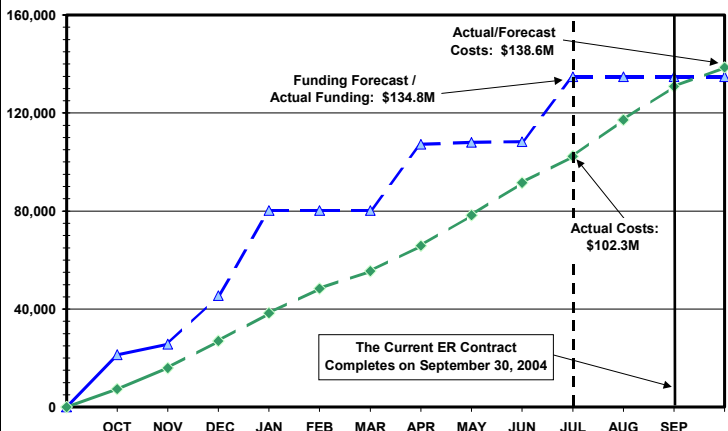
FY04 planned and completed TPA milestones:

- M-16-03H, Complete 300 Area regrade (due 6/30/04); **completed 2/19/04.**
- M-16-26E, Complete 100 B/C pipeline excavation (due 9/30/04); **completed 11/5/03.**
- M-93-11, Complete F Reactor ISS (due 9/30/04); **completed 1/15/04.**

Outyear TPA milestones forecast/completed in FY04:

- M-16-26F, Complete 100 B/C pipeline backfill (due 2/28/05); **completed 5/7/04.**
- M-16-03I, Complete 618-4 drum treatment (due TBD); **forecast 8/4/04.**
- M-93-17, Complete D Reactor ISS (due 12/31/04); **forecast 9/30/04.**

FUNDING:



PERFORMANCE INCENTIVES:

- SPI = 1.10 FYTD through July.
- Remove a Gold Chart radiological facility by 3/1/04. **Demolished above-grade portion of 1304-N Tank. Completed 4/2/04. Tank base demolition will be accomplished (if required) along with 1300-N Basin demolition.**
- Complete 10 Gold Chart release sites by 3/1/04. **Completed 2/23/04.**
- Complete 300-FF-1/618-5 Burial Ground regrade by 3/1/04. **Completed 2/19/04.**

ISSUES:

- D Reactor SSE contract schedule completion of 9/15/04 is one month beyond contractual date. Material availability, quality and equipment issues have caused delays.

ENVIRONMENTAL RESTORATION FACILITIES DECOMMISSIONING PROJECT

July 2004 Monthly Report

SAFETY:

- FYTD: 14 first aids; 3 recordable-only; 3 lost restricted; 0 lost workday; 0 skin contaminations
- Current Month: 4 first aids (1 sting, 1 laceration, 1 contusion/abrasion, 1 strain)

HIGHLIGHTS:

H Reactor:

- Completed SSE design walkdown on July 6.
- Completed demolition of gas wing east wall, roof of outer rod room, and Area 4 (Rooms 210, 211-B,-C,-D). Completed removal of outer rod room interior steel and concrete.
- Completed debris removal from gas wing Phase 1 explosive demolition; contractor will mobilize on August 4 for Phase 2 demolition.

D Reactor:

- Began roofing and siding installation on July 21.

1300-N Emergency Dump Basin (EDB):

- Completed removal of 30" dump line to 45-degree elbow and the 4" and 2" fuel lines. Completed loadout of EDB concrete wall rubble.

190-DR Facility:

- Completed all asbestos/biological hazard removal; final walkdown inspection has been completed.

1802-N Steam Piping:

- Initiated asbestos removal activities on July 13.

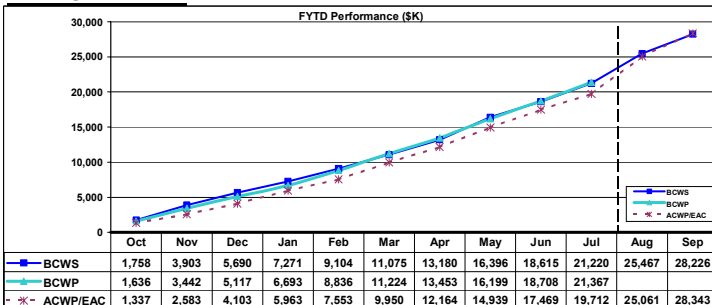
Other:

- Received 100-K Ancillary Facilities EE/CA Draft A comments from RL and EPA.
- Submitted N Reactor EE/CA Draft A to RL on 7/23/04 for review.
- Submitted B Reactor EE/CA Draft A to RL/regulators for review.
- Submitted 300 Area EE/CA Draft A (selected facilities in NW corner of 300 Area) to RL/regulators for review on 7/28/04.

UPCOMING KEY ACTIVITIES:

- Finalize FY05/06 DWP - August.
- Complete explosive demolition (Phase 2) of H Reactor - August.
- Complete D Reactor SSE and S&M Plan - September.
- Complete H Reactor SSE design - September.
- Complete demolition and removal of 1300-N EDB - August.
- Complete demolition of 6 small buildings at 100-N - September.

PERFORMANCE:



- SV:** \$147K; 0.7%. D Reactor SSE ahead of schedule; offset by late start for H Reactor gas wing and 1304-N dump tank demolition (impacted by weather/equipment delays).
- CV:** \$1,655K; 7.7%. Fewer resources required for 100 Area S&M. Less project support/oversight required for DR ancillary facilities D&D; offset by H Reactor demolition utilizing more resources than planned.

EAC TRENDS:

Current Month: (173K)

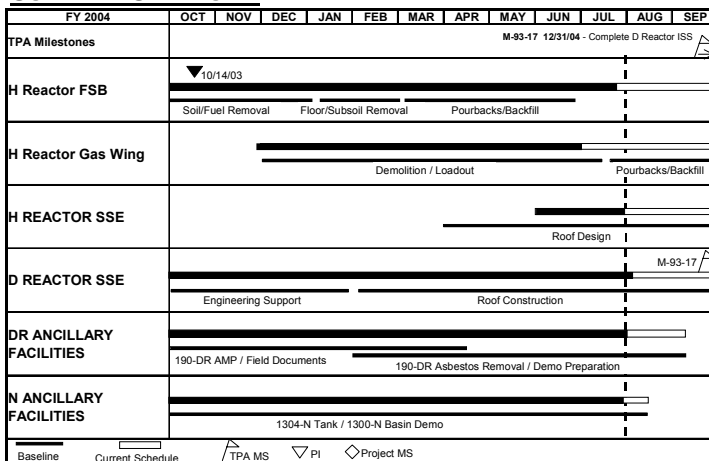
FYTD: \$117K

- H Reactor increase in explosive demolition Phase 2, and anticipated overtime in to-go schedule. Increase in equipment rentals.
- 117-DR demolition/loadout efficiencies.
- 190-DR asbestos removal less than anticipated.
- D Reactor increased due to subcontractor change orders.

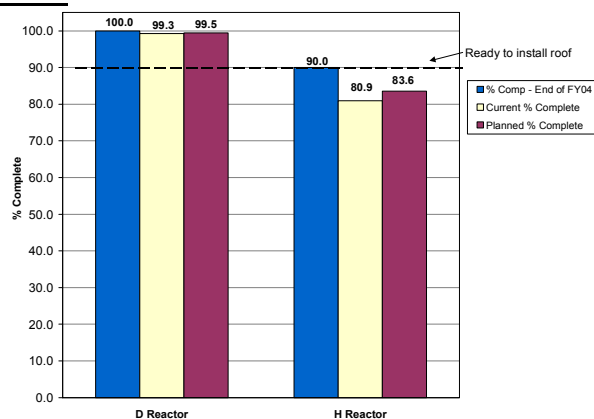
TPA MILESTONES:

- M-93-11, Complete F Reactor ISS (due 9/30/04); **completed 1/15/04, more than 8 months ahead of schedule. (Physical ISS work completed in August; regulators approved S&M Plan on 1/15/04.)**
- M-93-17, Complete D Reactor ISS (due 12/31/04); **forecast 9/30/04.**

SUMMARY SCHEDULE:



ISS METRIC:



PERFORMANCE INCENTIVES:

Remove a Gold Chart radiological facility by 3/1/04. **Demolished above-grade portion of 1304-N Tank. Completed 4/2/04. Tank base demolition will be accomplished (if required) along with 1300-N Basin demolition.**

ISSUES:

Issued letter to D Reactor SSE subcontractor expressing concern over schedule that shows 9/15/04 as completion; ~ one month beyond their contractual date. Material availability, quality and equipment issues have caused delays.

ENVIRONMENTAL RESTORATION REMEDIAL ACTION PROJECT

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SAFETY:

FYTD: 3 first aids; 0 recordable; 0 lost workday cases
Current Month: None

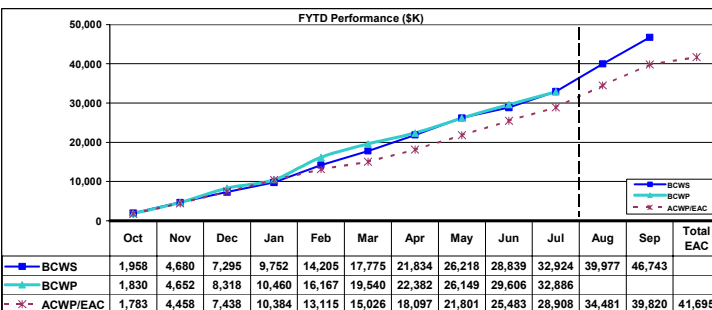
HIGHLIGHTS:

- Initiated excavation at 116-N-1 Crib and UPR 100-N-31.
- Began mobilization for backfill of 116-N-3 Crib, Trench, and pipelines.
- Continued remediation activities at 116-K-2 Mile Long Trench and effluent process pipelines.
- Began equipment mobilization for clean overburden removal at 118-K-1 Burial Ground.
- Initiated mobilization activities for the 300 Area East Side Contract.
- Completed installation of High Radiation Area (HRA) fencing around 118-B-1 Burial Grounds and sorting area.
- Re-initiated excavation/stockpiling/sorting activities at 118-B-1 under HRA protocol.
- Conducted pre-bid meeting and site tour of B/C Remaining Pipelines and Sewers (RPAS) subcontract sites; 4 bids were received.
- Completed additional chromium sampling at 100-D Area. There was no indication of chromium; samples were sent for analysis.
- Issued 2 Rev. 0 RSVPs.
- Issued 4 revised PHC/IHCs that addressed the new waste site inventories resulting from recent confirmatory sampling efforts at the "remaining" waste sites.

UPCOMING KEY ACTIVITIES:

- Complete RA FY05/06 DWP.
- Award the 100-B/C RPAS subcontract.
- Perform 618-7 Burial Ground Investigation.
- Perform haul road construction and overburden removal at 118-K-1.
- Begin backfilling for 116-N-3 Crib, Trench, and pipelines.
- Prepare the 618-1 final design.
- Initiate 100-H Area geophysical investigations.
- Initiate confirmatory sampling in 100-F Area.
- Initiate and complete 300-FF-2 mobilization activities including facilities, equipment, materials, and personnel to support remedial action.

PERFORMANCE:



- SV:** (\$38K); (0.1%). K Area pipeline, 116-K-2 Mile Long Trench and B/C BG remediation ahead of schedule; offset by schedule delays in contractor submittals and remediation at 116-N-1 Crib. Project is currently forecasting \$1,875K schedule variance carryover (100-B/C - \$1.5M and 100-N - \$.3K).

- CV:** \$3,978K; 12.1%. 300 Area backfill/regrade subcontract award less than plan; IP2 container efficiency due to blending high and low dose material; favorable settlement for previous site subcontract litigation; labor underruns at 100 K and 100 N Areas.

EAC TRENDS:

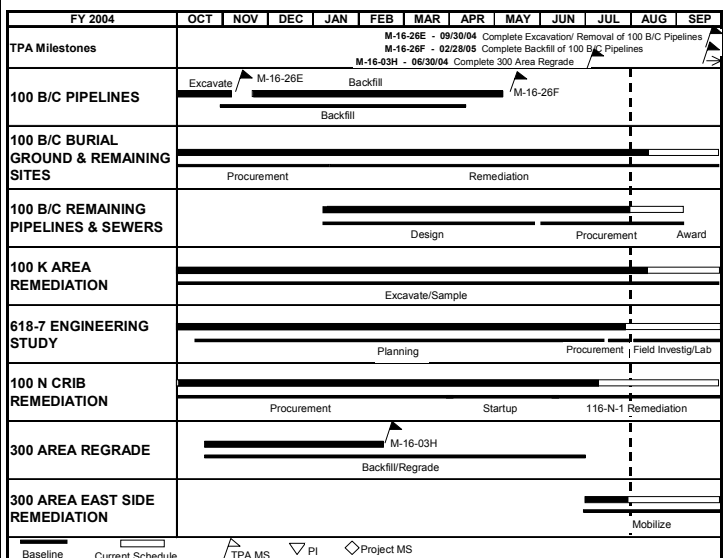
Current Month: \$112K
FYTD: (\$5,048K)

- Labor reductions at N Area, 300 Area, and Group 4; 300 Area backfill/regrade subcontract efficiencies; favorable settlement for previous site subcontract litigation; waste minimization efforts at B/C site 600-232.

TPA MILESTONES:

- M-16-03H, Complete 300-FF-1, 618-4, and 618-5 Burial Ground regrade (due 6/30/04); completed 2/19/04, more than 4 months ahead of schedule.
- M-16-26E, Complete excavation/removal of 100 B/C pipelines (due 9/30/04); completed 11/5/03, nearly 11 months ahead of schedule.
- M-16-26F, Complete backfill of 100 B/C pipelines (due 2/28/05); completed 5/7/04; more than 9 months ahead of schedule.

SUMMARY SCHEDULE:



PERFORMANCE INCENTIVES:

- Complete 10 Gold Chart release sites by 3/1/04. Completed on 2/23/04.
- Complete 300-FF-1/618-5 Burial Ground regrade by 3/1/04. Completed on 2/19/04.

ISSUES:

None for this reporting period.

ENVIRONMENTAL RESTORATION WASTE OPERATIONS PROJECT

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SAFETY:

FYTD: 8 first aids; 1 lost restricted; 0 lost workday cases
Current Month: None

HIGHLIGHTS:

- Received 63,000 tons of waste at ERDF during July; 421,000 tons during FY04; 4,939,000 tons of contaminated material have been disposed in ERDF since operations began in July 1996.
- One day of disposal operations was lost in July due to high winds. A second day was severely impacted by wind delays at the generator's sites.
- Treatment of 183-H waste, which had been shut down due to slag shortages, resumed on July 8.
- Disposed of three shipments of treated uranium chips-in-oil waste, that were returned from Tennessee.
- Final design of the structural vaults for the 218-W-4C Trench waste is nearing completion.
- Initiated repair of the leachate pumping system in response to problems encountered while pumping leachate to the Effluent Treatment Facility (valve was not closing completely). The valve was repaired, and pumping leachate successfully resumed.
- Completed secondary gravel placement in Cell 6 on July 2.
- Completed secondary geotextile material placement in Cell 6 on July 7.
- Installation of slope riser pipes in Cell 6 was completed on July 19.
- Completed primary geomembrane placement in Cell 6 on July 28.
- Completed primary geotextile material placement in Cell 6 on July 30.
- Began primary leachate piping installation in Cell 6 on July 29.
- Began staking and foundation preparation for Cell 6 Crest Pad Building on July 12.
- Completed secondary geomembrane placement in Cell 5 on July 6.
- Completed secondary geotextile placement in Cell 5 on July 15.
- Completed secondary gravel placement in Cell 5 on July 28.
- Completed secondary geocomposite placement in Cell 5 on July 28.
- Completed installation and backfill of sump riser pipes in Cell 5 on July 27.

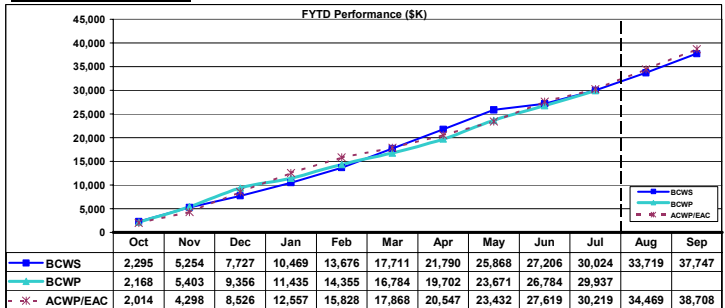
UPCOMING KEY ACTIVITIES:

- Obtain DOT equivalency and procure IP-2 roll-on/roll-off waste containers for shipping higher activity waste from 100-N Cribbs and for compliance with newly promulgated regulations that become effective in October.
- Receive final shipment of treated uranium chips-in-oil waste for disposal in ERDF (M-16-031).
- Complete design/procurement for receiving low-level fraction of waste from FH's TRU Retrieval Project. Prepare first pad in August.
- Complete primary liner and gravel system installation in Cell 6 in early August.
- Begin primary liner and gravel system installation in Cell 5 in August.

TPA MILESTONES:

M-16-031, Complete treatment of drummed waste from 618-4 Burial Ground (due TBD); *forecast 8/4/04.*

PERFORMANCE:



- SV:** (\$87K); (0.3%). ERDF expansion behind schedule. Good recovery experienced last three months; schedule expected to be recovered by fiscal year-end.
- CV:** (\$282K); (0.9%). Increase in uranium chips-in-oil treatment costs.; offset by under accrual of construction subcontract in current month.

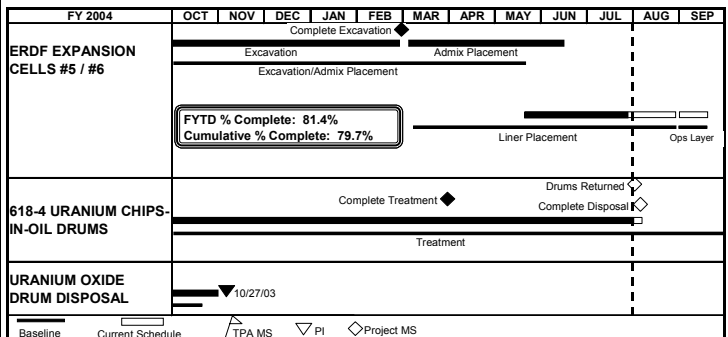
EAC TRENDS:

Current Month: \$215K

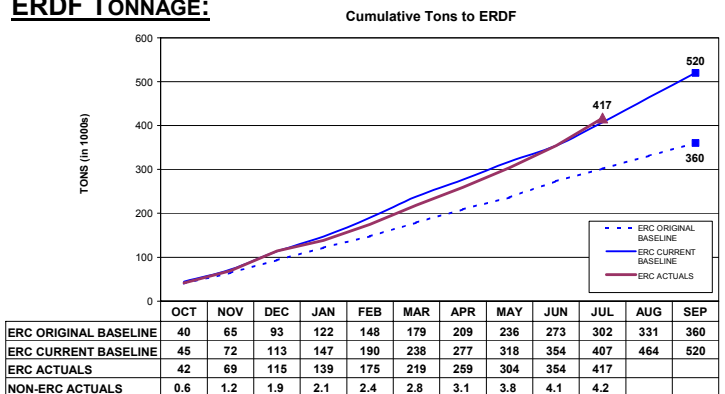
FYTD: \$961K

- Increased cost for treatment/disposal of uranium chips-in-oil.

SUMMARY SCHEDULE:



ERDF TONNAGE:



ISSUES:

None for this reporting period.

ENVIRONMENTAL RESTORATION RISK ASSESSMENT AND SITE CLOSURE PROJECT

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SAFETY:

No first aid, recordable, or lost workday cases experienced FYTD.

HIGHLIGHTS:

100/300 Area:

- Distributed Draft A of Work Plan to regulators and stakeholders for 60-day review; comments due August 25.
- Prepared and distributed briefing package for DQO interviews.
- Conducted DQO interviews with RL, EPA, Ecology, Oregon Dept. of Energy, and U.S. Fish and Wildlife Service.
- Rescheduled DQO workshops after completion of Work Plan as result of lessons learned from other risk assessment DQOs.

100-B/C Pilot:

- Issued 100 B/C Pilot Project Field Sampling Plan for 2004 Sampling, DOE RL 2004-53, Draft A.
- Issued 100-B/C Pilot Project Data Summary For 2003, BHI-01724.

Closure Activities:

- Issued review comments for 116-KE/KW-1 characterization report.
- Issued Self Assessment Report RASC-SA-04-05 for RSVP site closure documentation; no findings or observations.
- Orphan Site's field work task is ~40 percent complete.
- Supported transition of HGP sites from RL to BHI, resolving issues with differences in WIDS and Energy Northwest CVPs.

Other:

- Continued DWP development/reviews.

UPCOMING KEY ACTIVITIES:

100/300 Area:

- Conduct issues interviews with HAB, remaining Trustees and Tribes in August.
- Prepare issues matrix to summarize all concerns.
- Conduct issues resolution workshop with participants (September).

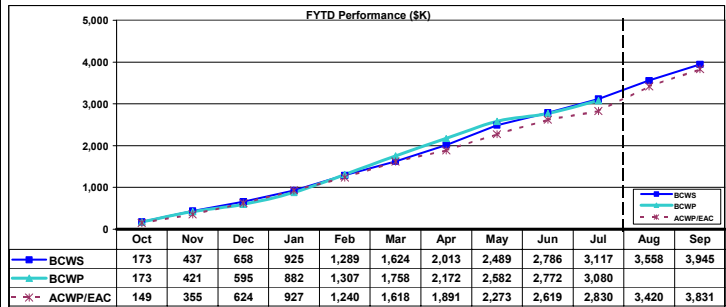
100-B/C Pilot:

- Complete Round 2 sampling and analysis in August.

Closure Activities:

- Complete historical document review for 105-C temporary construction facilities and 100-B/C.
- Complete field walkdown data reviews for 100-B/C Orphan Site evaluation task.
- Prepare point-of-view presentation for WIDS/Site Closure documentation requirements for facilities as presented for FDP DWP.
- Support design of work flowchart for a CVP-RSVP site closure documentation process.

PERFORMANCE:



- **SV:** (\$37K); (1.2%). B/C Pilot Round 2 sampling has increased resource loading in August. This variance will correct itself. Orphan Site plan implementation is slightly behind schedule as a result of resource limitations and equipment delivery delays.
- **CV:** \$250K; 8.1%. Columbia River Component Objectives/ Issues Definition and completion of the B&A document required fewer resources to complete than planned due to lessons learned from 100-B/C Pilot, 100/300 Area, and greater work efficiencies.

EAC TRENDS:

Current Month: \$30K

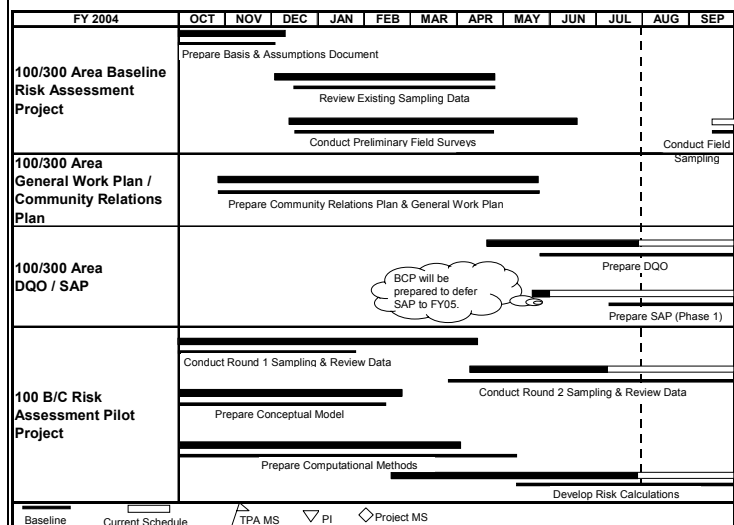
FYTD: (\$114K)

- Columbia River Component B&A document development less than planned.

TPA MILESTONES:

No FY04 milestones.

SUMMARY SCHEDULE:



ISSUES:

None for this reporting period.

ENVIRONMENTAL RESTORATION PROGRAM MANAGEMENT AND SUPPORT PROJECT

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SAFETY:

FYTD: 6 first aids; 0 recordable-only; 1 lost workday case
Current month: 1 first aid (laceration)

HIGHLIGHTS:

Safety and Health:

- RL reviewed the ERC ALARA work planning and implementing process. No issues were identified.
- S&H completed the beryllium control plan for the 618-7 waste site characterization. This includes guidance that adequately protects ERC workers and the public from potential beryllium hazards at the site.

Technical Services:

- Completed ERC portion of the Hanford Site Air Operating Permit Semi-annual Report for the period January-June 2004.
- Submitted draft of the Remaining Sites Verification Package (RSVP) work flow chart for internal review as part of work process improvement.
- Completed a self-assessment of documentation for an RSVP site closure. The assessment determined that the documentation was defensible and traceable. There were no findings or observations.
- DOE-EH-24 review comments of the Nuclear Safety Program were very favorable, and ERC program was found to be very robust.
- Initiated annual nuclear criticality safety assessment.
- Provided sample and data management support – collected 246 samples, issued 9 sample authorization forms (SAF), closed 7 SAFs, issued 5 sample disposition records (SDR), validated 1 data package, completed third quarter review of SDRs. The quarterly review revealed no adverse trends in sampling or sample and data management process.
- Completed scoping statements, resource-loaded schedules, and cost estimates for the Technical Services portion of the FY05/06 Detailed Work Plan.

UPCOMING KEY ACTIVITIES:

Safety and Health:

- A beryllium training self-assessment indicated the need to update information for HGET regarding the possibility of contaminated workers transporting beryllium home on work clothing.
- Characterization of 618-7 Burial Ground is scheduled to start August 16, requiring heightened beryllium oversight and other safety support.

Technical Services:

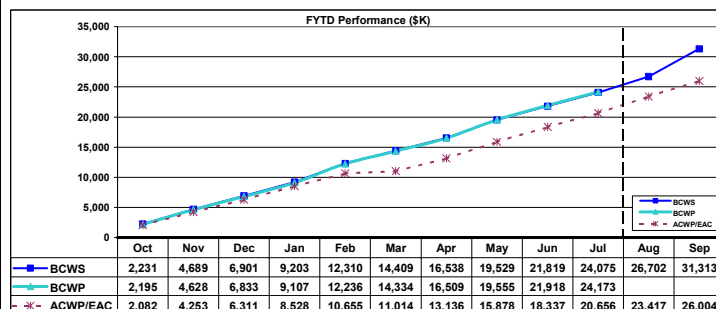
- Complete field sampling support for lead sheathed telecommunications cable through August.
- Complete self-assessment of sampling activities by August.
- Issue nuclear safety assessment report in August.
- Complete Environmental Management System Gap Analysis by September.

ASSESSMENTS:

FY 2004 ERC Assessment Data												
Assessments	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Scheduled	14	15	16	19	22	26	29	24	29	19	24	26
Scheduled / Performed	11	12	13	16	15	19	21	22	23	18		
Past Due Completed	0	0	0	0	4	1	3	2	1	0		
Unscheduled / Performed	5	4	4	10	5	2	5	7	2	5		
Total Performed	16	16	17	26	24	22	29	31	26	23		

No significant findings during this reporting period.

PERFORMANCE:



- **SV:** \$99K; 0.4%. N/A
- **CV:** \$3,517K; 14.5%
- **Technical Services:**
 - Underrun in Regulatory Support, Design Engineering, Technology Applications, and Sample and Data Management due to more direct project support.
- **QA&S:**
 - Lost full-time manager and 3 staff, of which 2 have recently been replaced. Assessment scope has been reduced requiring fewer hours to perform each assessment.
- **Other:**
 - Prior-year rebill accounting adjustments were realized in March.

EAC TRENDS:

Current Month: (\$291K)

FYTD: (\$5,309K)

- Prior-year rebill adjustments and FY04 fee forecast reduction.
- Staffing reductions; staff charging more direct project support.

ISSUES:

None for this reporting period.

ENVIRONMENTAL RESTORATION RECOVERY OF DISTRIBUTABLE COST

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